

## Index of Authors and Titles

- ADELSON, D. L. and HUMPHREYS, T. Sea urchin morphogenesis and cell-hyalin adhesion are perturbed by a monoclonal antibody specific for hyalin 391
- AIMAR, C. Control of cell cycle length in amphibian eggs: evidence for a temporal relationship between the nucleus and egg cytoplasm 415
- AKAM, M., DAWSON, I. and TEAR, G. Homeotic genes and the control of segment diversity *Supplement* 123
- AKHURST, R. J. *See* LEHNERT, S. A.
- ANDERSON, H. and TUCKER, R. P. Pioneer neurones use basal lamina as a substratum for outgrowth in the embryonic grasshopper limb 601
- ANSELIN, A. D. *See* PETTIGREW, A. G.
- AO, A., MONK, M., LOVELL-BADGE, R. and MELTON, D. W. Expression of injected HPRT minigene DNA in mouse embryos and its inhibition by antisense DNA 465
- AOYAMA, H. and ASAMOTO, K. Determination of somite cells: independence of cell differentiation and morphogenesis 15
- ASAMOTO, K. *See* AOYAMA, H.
- ATKINSON, L. *See* KWONG, L.
- BALDWIN, T. J., THERIOT, J. A., YOSHIHARA, C. M. and BURDEN, S. J. Regulation of transcript encoding the 43K subsynaptic protein during development and after denervation 557
- BALLING, R. *See* DRESSLER, G. R.
- BARTON, C. H., DICKSON, G., GOWER, H. J., ROWETT, L. H., PUTT, W., ELSOM, V., MOORE, S. E., GORIDIS, C. and WALSH, F. S. Complete sequence and *in vitro* expression of a tissue-specific phosphatidylinositol-linked N-CAM isoform from skeletal muscle 165
- BARTON, S. C. *See* COLLIK, A.
- BATE, C. M. *See* TEAR, G.
- BECK, F., SAMANI, N. J., BYRNE, S., MORGAN, K., GEBHARD, R. and BRAMMAR, W. J. Histochemical localization of IGF-I and IGF-II in the rat between birth and adulthood 29
- BECK, F. *See* PRATTEN, M. K.
- BECK, F. *See* SENIOR, P. V.
- BECKER, D. L. and COOK, J. E. Divergent axon collaterals in the regenerating goldfish optic tract: a fluorescence double-label study 317
- BECKER, D. L. *See* COOK, J. E.
- BLIGHT, K. *See* MCROBBIE, S. J.
- BOUCAUT, J.-C. *See* RIQU, J.-P.
- BRAMLEY, J. R. *See* PETTIGREW, A. G.
- BRAMMAR, W. J. *See* BECK, F.
- BREEN, K. C. and REGAN, C. M. Developmental control of N-CAM sialylation state by Golgi sialyltransferase isoforms 147
- BROCKES, J. P. *See* CASIMIR, C. M.
- BROOK, F. A. *See* COPP, A. J.
- BROOKE, A. M. *See* PRATTEN, M. K.
- BROOME, S. C. *See* PRATTEN, M. K.
- BRULFERT, A. *See* HOURDRY, J.
- BUCKINGHAM, M. *See* SASOON, D. A.
- BUEHR, M. *See* BURGOYNE, P. S.
- BURDEN, S. J. *See* BALDWIN, T. J.
- BURGOYNE, P. S., BUEHR, M. and McLAREN, A. XY follicle cells in ovaries of XX → XY female mouse chimaeras 683
- BUSTURIA, A. and MORATA, G. Ectopic expression of homeotic genes caused by the elimination of the *Polycomb* gene in *Drosophila* imaginal epidermis 713
- BYRNE, S. *See* BECK, F.
- CANNING, D. R. and STERN, C. D. Changes in the expression of the carbohydrate epitope HNK-1 associated with mesoderm induction in the chick embryo 643
- CARRINGTON, J. L. and FALLON, J. F. Initial limb budding is independent of apical ectodermal ridge activity; evidence from a limbless mutant 361
- CASIMIR, C. M., GATES, P. B., PATIENT, R. K. and BROCKES, J. P. Evidence for dedifferentiation and metaplasia in amphibian limb regeneration from inheritance of DNA methylation 657
- CHIQUET, M. *See* RIQU, J.-P.
- CLARKE, H. J., ROSSANT, J. and MASUI, Y. Suppression of chromosome condensation during meiotic maturation induces parthenogenetic development of mouse oocytes 97
- CLARKE, H. J., VARMUZA, S., PRIDEAUX, V. R. and ROSSANT, J. The developmental potential of parthenogenetically derived cells in chimeric mouse embryos: implications for action of imprinted genes 175
- COLLIK, A., REIK, W., BARTON, S. C. and SURANI, M. A. H. CpG methylation of an X-linked transgene is determined by somatic events postfertilization and not germline imprinting 235
- COLTEY, M. *See* OHKI, H.
- COOK, J. E. and BECKER, D. L. Retinotopic refinement of the regenerating goldfish optic tract is not linked to activity-dependent refinement of the retinotectal map 321
- COOK, J. E. *See* BECKER, D. L.
- COOKE, J. A note on segmentation and the scale of pattern formation in insects and in vertebrates *Supplement* 245
- COOPER, S. and PERA, M. F. Vitronectin production by human yolk sac carcinoma cells resembling parietal endoderm 565
- COPP, A. J., BROOK, F. A. and ROBERTS, H. J. A cell-type-specific abnormality of cell proliferation in mutant (curly tail) mouse embryos developing spinal neural tube defects 285
- COPP, A. J., CROLLA, J. A. and BROOK, F. A. Prevention of spinal neural tube defects in the mouse embryo by growth retardation during neurulation 297
- CRAWFORD, K. and STOCUM, D. L. Retinoic acid proximalizes level-specific properties responsible for intercalary regeneration in axolotl limbs 703
- CRITCHLEY, D. R. *See* SENIOR, P. V.
- CROLLA, J. A. *See* COPP, A. J.
- DAVIDSON, D. Segmentation in frogs *Supplement* 221
- DAVIDSON, D., GRAHAM, E., SIME, C. and HILL, R. A gene with sequence similarity to *Drosophila engrailed* is expressed during the development of the neural tube and vertebrae in the mouse 305
- DAWSON, I. *See* AKAM, M.
- DEUTSCH, U. *See* DRESSLER, G. R.
- DICKSON, G. *See* BARTON, C. H.
- DOHLE, W. and SCHOLTZ, G. Clonal analysis of the crustacean segment: the discordance between genealogical and segmental borders *Supplement* 147

- DRESSLER, G. R., DEUTSCH, U., BALLING, R., SIMON, D., GUENET, J.-L. and GRUSS, P. Murine genes with homology to *Drosophila* segmentation genes *Supplement* 181
- DUBOULE, D. *See* GAUNT, S. J.
- DUFFY, K. *See* McROBBIE, S. J.
- DYBAN, A. P., LEE, K., O'NEILL, G. T., SPEIRS, S. and KAUFMAN, M. H. Cytogenetic study of silver-staining NOR in 8-cell-stage mouse blastomeres fused to 1-cell-stage embryos 453
- ELBETIEHA, A. and KALTHOFF, K. Anterior determinants in embryos of *Chironomus samoensis*: characterization by rescue bioassay 61
- ELSON, V. *See* BARTON, C. H.
- EMERSON, J. A. Disruption of the cytokeratin filament network in the preimplantation mouse embryo 219
- FALLON, J. F. *See* CARRINGTON, J. L.
- FASANO, L. and KERRIDGE, S. Monitoring positional information during oogenesis in adult *Drosophila* 245
- FFRENCH-CONSTANT, C. and HYNES, R. O. Patterns of fibronectin gene expression and splicing during cell migration in chicken embryos 369
- FOUQUET, B., HERRMANN, H., FRANZ, J. K. and FRANKE, W. W. Expression of intermediate filament proteins during development of *Xenopus laevis*. III. Identification of mRNAs encoding cytokeratins typical of complex epithelia 533
- FRANKE, W. W. *See* FOUQUET, B.
- FRANZ, J. K. *See* FOUQUET, B.
- FRASER, S. E. *See* STERN, C. D.
- FRENCH, V. Gradients and insect segmentation *Supplement* 3
- GARDNER, D. K. and LEES, H. J. The role of glucose and pyruvate transport in regulating nutrient utilization by preimplantation mouse embryos 423
- GARNER, I. *See* SASSEON, D. A.
- GASCH, A. *See* LEISS, D.
- GATES, P. B. *See* CASIMIR, C. M.
- GAUL, U. *See* JÄCKLE, H.
- GAUNT, S. J., SHARPE, P. T. and DUBOULE, D. Spatially restricted domains of homeo-gene transcripts in mouse embryos: relation to a segmented body plan *Supplement* 169
- GEHBARD, R. *See* BECK, F.
- GERGEN, P. *See* INGHAM, P.
- GERSHON, M. D. *See* MACKAY, H. M.
- GORIDIS, C. *See* BARTON, C. H.
- GOWER, H. J. *See* BARTON, C. H.
- GRAHAM, E. *See* DAVIDSON, D.
- GRAHAM, K. T. *See* HARRISON, L. G.
- GRUSS, P. *See* DRESSLER, G. R.
- GRUSS, P. *See* MAHON, K. A.
- GUENET, J.-L. *See* DRESSLER, G. R.
- GUSSE, M. *See* HOURDRY, J.
- GYURKOVICS, H. *See* ISH-HOROWICZ, D.
- HARRISON, L. G. *See* LACALLI, T. C.
- HARRISON, L. G., GRAHAM, K. T. and LAKOWSKI, B. C. Calcium localization during *Acetabularia* whorl formation: evidence supporting a two-stage hierarchical mechanism 255
- HASHIMOTO, Y. *See* NAKANISHI, Y.
- AYAKAWA, T. *See* NAKANISHI, Y.
- HENKE-FAHLE, S. *See* SARIOLA, H.
- HERRMANN, H. *See* FOUQUET, B.
- HILL, R. *See* DAVIDSON, D.
- HINZ, U. *See* LEISS, D.
- HOLM, K. *See* SARIOLA, H.
- HOURDRY, J., BRULFERT, A., GUSSE, M., SCHOEVAERT, D., TAYLOR, M. V. and MECHALI, M. Localization of c-myc expression during oogenesis and embryonic development in *Xenopus laevis* 631
- HOWARD, K. The generation of periodic pattern during early *Drosophila* embryogenesis *Supplement* 35
- HOWELL, W. *See* LAUGHON, A.
- HUMPHREYS, T. *See* ADELSON, D. L.
- HUTSON, J. M., SHAW, G., O, W. S., SHORT, R. V. and RENFREE, M. B. Müllerian inhibiting substance production and testicular migration and descent in the pouch young of a marsupial 549
- HYNES, R. O. *See* FFRENCH-CONSTANT, C.
- INGHAM, P. and GERGEN, P. Interactions between the pair-rule genes *runt*, *hairy*, *even-skipped* and *fushi tarazu* and the establishment of periodic pattern in the *Drosophila* embryo *Supplement* 51
- INOUE, K. Induction by acid load of the maturation of prestalk cells in *Dictyostelium discoideum* 669
- ISH-HOROWICZ, D. and GYURKOVICS, H. Ectopic segmentation gene expression and metamerization regulation in *Drosophila* *Supplement* 67
- ITOH, K., YAMASHITA, A. and KUBOTA, H. Y. The expression of epidermal antigens in *Xenopus laevis* 1
- JÄCKLE, H., GAUL, U. and REDEMANN, N. Regulation and putative function of the *Drosophila* gap gene *Krüppel* *Supplement* 29
- JACOBSON, A. G. Somitomeres: mesodermal segments of vertebrates *Supplement* 209
- JACOBSON, A. G. and SATER, A. K. Features of embryonic induction 341
- JENSEN, K. L. *See* SOLURSH, M.
- JERMYN, K. A. *See* McROBBIE, S. J.
- JOHNSTON, R. N. *See* REMPEL, S. A.
- KALTHOFF, K. *See* ELBETIEHA, A.
- KAUFMAN, M. H. *See* DYBAN, A. P.
- KERRIDGE, S. *See* FASANO, L.
- KEYNES, R. J. *See* PRIMMETT, D. R. N.
- KEYNES, R. J. *See* STERN, C. D.
- KIMMEL, C. B., SEPICH, D. S. and TREVARROW, B. Development of segmentation in zebrafish *Supplement* 197
- KISHI, J.-I. *See* NAKANISHI, Y.
- KOMAKI, M. K., OKADA, K., NISHINO, E. and SHIMURA, Y. Isolation and characterization of novel mutants of *Arabidopsis thaliana* defective in flower development 195
- KORNBERG, T. B. *See* POOLE, S. J.
- KUBOTA, H. Y. *See* ITOH, K.
- KWONG, L., SOBOLEWSKI, A., ATKINSON, L. and WEEKS, G. Stalk cell formation in monolayers from isolated prestalk and prespore cells of *Dictyostelium discoideum*: evidence for two populations of prestalk cells 121
- LACALLI, T. C., WILKINSON, D. A. and HARRISON, L. G. Theoretical aspects of stripe formation in relation to *Drosophila* segmentation 105
- LAKOWSKI, B. C. *See* HARRISON, L. G.
- LAU, E. C. *See* SNEAD, M. L.
- LAUGHON, A., HOWELL, W. and SCOTT, M. P. The interaction of proteins encoded by *Drosophila* homeotic and

- segmentation genes with specific DNA sequences  
Supplement 75
- LAWRENCE, P. A. The present status of the parasegment  
Supplement 61
- LAWRENCE, P. A. *See MAGRASSI, L.*
- LE DOUARIN, N. M. *See OHKI, H.*
- LEE, K. *See DYBAN, A. P.*
- LEESE, H. J. *See GARDNER, D. K.*
- LEHMANN, R. Phenotypic comparison between maternal  
and zygotic genes controlling the segmental pattern of the  
*Drosophila* embryo Supplement 17
- LEHNERT, S. A. and AKHURST, R. J. Embryonic expression  
pattern of TGF beta type-1 RNA suggests both  
paracrine and autocrine mechanisms of action 263
- LEISS, D., HINZ, U., GASCH, A., MERTZ, R. and RENKAWITZ-  
POHL, R.  $\beta$  tubulin expression characterizes the  
differentiating mesodermal germ layer during  
*Drosophila* embryogenesis 525
- LOVELL-BADGE, R. H. *See MANN, J. R.*
- LOVELL-BADGE, R. *See AO, A.*
- LUO, W. *See SNEAD, M. L.*
- MACKEY, H. M., PAYETTE, R. F. and GERSHON, M. D. Tissue  
effects on the expression of serotonin, tyrosine  
hydroxylase and GABA in cultures of neurogenic cells  
from the neuraxis and branchial arches 205
- MCALLEN, A. *See BURGOYNE, P. S.*
- McROBBIE, S. J., JERMYN, K. A., DUFFY, K., BLIGHT, K. and  
WILLIAMS, J. G. Two DIF-inducible, prestalk-specific  
mRNAs of *Dictyostelium* encode extracellular matrix  
proteins of the slug 275
- MAGRASSI, L. and LAWRENCE, P. A. The pattern of cell  
death in *fushi tarazu*, a segmentation gene of  
*Drosophila* 447
- MAHON, K. A., WESTPHAL, H. and GRUSS, P. Expression of  
homeobox gene *Hox 1.1* during mouse  
embryogenesis Supplement 187
- MANN, J. R. and LOVELL-BADGE, R. H. Two maternally  
derived X chromosomes contribute to parthenogenetic  
inviability 129
- MARTIN, C. *See OHKI, H.*
- MARTINEZ ARIAS, A. *See TEAR, G.*
- MASUI, Y. *See CLARKE, H. J.*
- MECHALI, M. *See HOURLY, J.*
- MEINHARDT, H. Models for maternally supplied positional  
information and the activation of segmentation genes in  
*Drosophila* embryogenesis Supplement 95
- MELTON, D. W. *See AO, A.*
- MERRILL, P. T., SWEETON, D. and WIESCHAUS, E.  
Requirements for autosomal gene activity during  
precellular stages of *Drosophila melanogaster* 495
- MERTZ, R. *See LEISS, D.*
- MONK, M. *See AO, A.*
- MOORE, S. E. *See BARTON, C. H.*
- MORATA, G. *See BUSTURIA, A.*
- MORGAN, K. *See BECK, F.*
- MUGGLETON-HARRIS, A. L. *See PRATT, H. P. M.*
- NAKANISHI, Y., NOGAWA, H., HASHIMOTO, Y., KISHI, J.-I. and  
HAYAKAWA, T. Accumulation of collagen III at the cleft  
points of developing mouse submandibular  
epithelium 51
- NAKATSUJI, N. Beige granules as a cell marker for clonal  
analysis in kidney and liver of mouse aggregation  
chimaeras, and three-dimensional reconstruction from  
serial paraffin sections 383
- NISHINO, E. *See KOMAKI, M. K.*
- NOGAWA, H. *See NAKANISHI, Y.*
- O'NEILL, G. T. *See DYBAN, A. P.*
- O, W. S. *See HUTSON, J. M.*
- O, W. S. *See SHAW, G.*
- OHKI, H., MARTIN, C., COLTEY, M. and LE DOUARIN, N. M.  
Implants of quail thymic epithelium generate permanent  
tolerance in embryonically constructed quail/chick  
chimeras 619
- OKADA, K. *See KOMAKI, M. K.*
- PATIENT, R. K. *See CASIMIR, C. M.*
- PAYETTE, R. F. *See MACKEY, H. M.*
- PERA, M. F. *See COOPER, S.*
- PETTIGREW, A. G., ANSELIN, A. D. and BRAMLEY, J. R.  
Development of functional innervation in the second  
and third order auditory nuclei of the chick 575
- POOLE, S. J. and KORNBERG, T. B. Modifying expression of  
the *engrailed* gene of *Drosophila melanogaster*  
Supplement 85
- PRATT, H. P. M. and MUGGLETON-HARRIS, A. L. Cycling  
cytoplasmic factors that promote mitosis in the cultured  
2-cell mouse embryo 115
- PRATTEN, M. K., BROOKE, A. M., BROOME, S. C. and BECK, F.  
The effect of epidermal growth factor, insulin and  
transferrin on the growth-promoting properties of  
serum depleted by repeated culture of postimplantation  
rat embryos 137
- PRICE, D. J. *See WEISBLAT, D. A.*
- PRICE, J. and THURLOW, L. Cell lineage in the rat cerebral  
cortex: a study using retroviral-mediated gene  
transfer 473
- PRIDEAUX, V. R. *See CLARKE, H. J.*
- PRIMMETT, D. R. N., STERN, C. D. and KEYNES, R. J. Heat  
shock causes repeated segmental anomalies in the chick  
embryo 331
- PRIMMETT, D. R. N. *See STERN, C. D.*
- PUTT, W. *See BARTON, C. H.*
- REDEMANN, N. *See JACKLE, H.*
- REGAN, C. M. *See BREEN, K. C.*
- REIK, W. *See COLICK, A.*
- REMPEL, S. A. and JOHNSTON, R. N. Steroid-induced cell  
proliferation *in vivo* is associated with increased c-myc  
proto-oncogene transcript abundance 87
- RENFREE, M. B. *See HUTSON, J. M.*
- RENFREE, M. B. *See SHAW, G.*
- RENKAWITZ-POHL, R. *See LEISS, D.*
- RIOU, J.-P., SHI, D.-L., CHIQUET, M. and BOUCAUT, J.-C.  
Expression of tenascin in response to neural induction  
in amphibian embryos 511
- ROBERTS, H. J. *See COPP, A. J.*
- ROSSANT, J. *See CLARKE, H. J.*
- ROWETT, L. H. *See BARTON, C. H.*
- SAMANI, N. J. *See BECK, F.*
- SANDER, K. Studies in insect segmentation: from teratology  
to phenogenetics Supplement 111
- SARIOLA, H., HOLM, K. and HENKE-FAHLE, S. Early  
innervation of the metanephric kidney 589
- SASSOON, D. A., GARNER, I. and BUCKINGHAM, M.  
Transcripts of  $\alpha$ -cardiac and  $\alpha$ -skeletal actins are early  
markers for myogenesis in the mouse embryo 155
- SATER, A. K. *See JACOBSON, A. G.*
- SCHOEVAERT, D. *See HOURLY, J.*
- SCHOLTZ, G. *See DOHLE, W.*
- SCOTT, M. P. *See LAUGHON, A.*

- SENIOR, P. V., CRITCHLEY, D. R., BECK, F., WALKER, R. A. and VARLEY, J. M. The localization of laminin mRNA and protein in the postimplantation embryo and placenta of the mouse: an *in situ* hybridization and immunocytochemical study 431
- SEPICH, D. S. *See* KIMMEL, C. B.
- SHARPE, P. T. *See* GAUNT, S. J.
- SHAW, G., RENFREE, M. B., SHORT, R. V. and O. W. S. Experimental manipulation of sexual differentiation in wallaby pouch young treated with exogenous steroids 689
- SHI, D.-L. *See* RIOU, J.-P.
- SHAW, G. *See* HUTSON, J. M.
- SHIMURA, Y. *See* KOMAKI, M. K.
- SHORT, R. V. *See* HUTSON, J. M.
- SHORT, R. V. *See* SHAW, G.
- SIME, C. *See* DAVIDSON, D.
- SIMON, D. *See* DRESSLER, G. R.
- SLAVKIN, H. C. *See* SNEAD, M. L.
- SMITH, J. C. *See* SYMES, K.
- SNEAD, M. L., LUO, W., LAU, E. C. and SLAVKIN, H. C. Spatial- and temporal-restricted pattern for amelogenin gene expression during mouse molar tooth organogenesis 77
- SOBOLEWSKI, A. *See* KWONG, L.
- SOLURSH, M. and JENSEN, K. L. The accumulation of basement membrane components during the onset of chondrogenesis and myogenesis in the chick wing bud 41
- SPEIRS, S. *See* DYBAN, A. P.
- STERN, C. D., FRASER, S. E., KEYNES, R. J. and PRIMMETT, D. R. N. A cell lineage analysis of segmentation in the chick embryo Supplement 231
- STERN, C. D. *See* CANNING, D. R.
- STERN, C. D. *See* PRIMMETT, D. R. N.
- STOCUM, D. L. *See* CRAWFORD, K.
- SURANI, M. A. H. *See* COLLICK, A.
- SWEETON, D. *See* MERRILL, P. T.
- SWEETON, D. *See* WIESCHAUS, E.
- SYMES, K., YAQOOB, M. and SMITH, J. C. Mesoderm induction in *Xenopus laevis*: responding cells must be in contact for mesoderm formation but suppression of epidermal differentiation can occur in single cells 609
- TAYLOR, M. V. *See* HOURDRY, J.
- TEAR, G. *See* AKAM, M.
- TEAR, G., BATE, C. M. and MARTINEZ ARIAS, A. A phylogenetic interpretation of the patterns of gene expression in *Drosophila* embryos Supplement 135
- THERIOT, J. A. *See* BALDWIN, T. J.
- THURLOW, L. *See* PRICE, J.
- TOMLINSON, A. Cellular interactions in the developing *Drosophila* eye 183
- TREVARROW, B. *See* KIMMEL, C. B.
- TUCKER, R. P. *See* ANDERSON, H.
- VARLEY, J. M. *See* SENIOR, P. V.
- VARMUZA, S. *See* CLARKE, H. J.
- WALKER, R. A. *See* SENIOR, P. V.
- WALSH, F. S. *See* BARTON, C. H.
- WEDEEN, C. J. *See* WEISBLAT, D. A.
- WEEKS, G. *See* KWONG, L.
- WEISBLAT, D. A., PRICE, D. J. and WEDEEN, C. J. Segmentation in leech development Supplement 161
- WESTPHAL, H. *See* MAHON, K. A.
- WIESCHAUS, E. and SWEETON, D. Requirements for X-linked zygotic gene activity during cellularization of early *Drosophila* embryos 483
- WIESCHAUS, E. *See* MERRILL, P. T.
- WILES, M. V. Isolation of differentially expressed human cDNA clones: similarities between mouse and human embryonal carcinoma cell differentiation 403
- WILKINSON, D. A. *See* LACALLI, T. C.
- WILLIAMS, J. G. *See* McROBBIE, S. J.
- YAMASHITA, A. *See* ITOH, K.
- YAQOOB, M. *See* SYMES, K.
- YOSHIHARA, C. M. *See* BALDWIN, T. J.

## Subject Index

- Acetabularia**  
calcium localization in whorl formation: HARRISON,  
GRAHAM & LAKOWSKI 255
- Actin**  
gene expression in mouse embryo: SASSOON, GARNER &  
BUCKINGHAM 155
- Activity**  
-dependent refinement of retinotectal map: COOK &  
BECKER 321
- Adhesion**  
cell  
-hyalin and sea urchin morphogenesis: ADELSON &  
HUMPHREYS 391  
tissue-specific phosphatidylinositol-linked N-CAM  
isoform: BARTON AND OTHERS 165
- Adult**  
pattern  
and homeotic genes in *Drosophila*: BUSTURIA &  
MORATA 713
- Alternative splicing**  
patterns of fibronectin gene expression: FFRENCH-  
CONSTANT & HYNES 369
- Amelogenin**  
gene expression: SNEAD AND OTHERS 77
- Amino acid**  
sequence  
expression of *Xenopus* intermediate filament  
proteins: FOUCET AND OTHERS 533  
tissue-specific phosphatidylinositol-linked N-CAM  
isoform: BARTON AND OTHERS 165
- AMP**  
stalk cell formation in *Dictyostelium*: KWONG AND  
OTHERS 121
- Amphibia**  
egg  
control of cell cycle length: AIMAR 415  
embryo  
segmentation: JACOBSON Supplement 209  
tenascin expression: RIOU AND OTHERS 511  
segmentation of frogs: DAVIDSON Supplement 221
- Anomaly**  
in chick embryo segmentation and heat shock:  
PRIMMETT, STERN & KEYNES 331
- Antennapedia Complex**  
adult pattern and homeotic genes in *Drosophila*:  
BUSTURIA & MORATA 713
- Anterior determinant**  
in *Chironomus* embryo: ELBETIEHA & KALTHOFF 61
- Antibody**  
analysis of *Drosophila* eye development: TOMLINSON  
183  
microinjection  
cytokeratins in mouse embryo: EMERSON 219  
specific for hyalin in sea urchin: ADELSON &  
HUMPHREYS 391
- Antisense DNA**  
inhibition of expression of injected HPRT minigene: AO  
AND OTHERS 465
- Apical ectodermal ridge**  
and limb budding: CARRINGTON & FALCON 361
- Arabidopsis thaliana**  
flower mutants: KOMAKI AND OTHERS 195
- Area vasculosa**  
chick  
patterns of fibronectin gene expression: FFRENCH-  
CONSTANT & HYNES 369
- Auditory nuclei**  
innervation pattern in chick: PETTIGREW, ANSELIN &  
BRAMLEY 575
- Autosomal gene activity**  
in precellular *Drosophila*: MERRILL, SWEETON &  
WIESCHAUS 495
- Axis**  
determination in chimaeric embryos: AOYAMA &  
ASAMOTO 15
- Axolotl**  
regeneration  
and retinoic acid: CRAWFORD & STOCUM 703
- Axon**  
collaterals  
in regenerating goldfish optic tract: BECKER & COOK  
317  
refinement of optic tract order: COOK & BECKER 321
- Basal lamina**  
as substratum for pioneer growth cones: ANDERSON &  
TUCKER 601
- Basement membrane**  
components in chick wing bud: SOLURSH & JENSEN 41
- Beige mutation**  
as cell marker for clonal analysis in chimaera:  
NAKATSUJI 383
- Bioassay**  
of anterior determinants in *Chironomus*: ELBETIEHA &  
KALTHOFF 61
- Biochemical clock**  
heat shock and chick segmentation: PRIMMETT, STERN &  
KEYNES 331
- Biominerilization**  
amelogenin gene expression in mouse: SNEAD AND  
OTHERS 77
- Bithorax Complex**  
adult pattern and homeotic genes in *Drosophila*:  
BUSTURIA & MORATA 713
- Blastema**  
regeneration  
cell fates in amphibian limb: CASIMIR AND OTHERS  
657
- Blastomere**  
mouse  
fusion and NOR activity: DYBAN AND OTHERS 453
- Block**  
rescue by cytoplasmic factors in 2-cell mouse embryos:  
PRATT & MUGGLETON-HARRIS 115
- Brain**  
*engrailed* expression in mouse embryos: DAVIDSON AND  
OTHERS 305
- Branchial arch**  
tissue effects on phenotypic expression of crest-derived  
cells: MACKEY, PAYETTE & GERSHON 205
- Brusselator**  
metameric pattern formation in *Drosophila*: LACALLI,  
WILKINSON & HARRISON 105
- BX-C (see Bithorax Complex)**

- Cadmium**  
expression of HPRT minigene DNA: AO AND OTHERS 465
- Calcium**  
localization in *Acetabularia* whorl formation: HARRISON, GRAHAM & LAKOWSKI 255
- Carcinoma cell**  
yolk sac  
vitronectin production: COOPER & PERA 56
- Cardiogenesis**  
actin gene expression in mouse embryo: SASSOON, GARNER & BUCKINGHAM 155
- Cartilage**  
development in chimaeric embryos: AOYAMA & ASAMOTO 15
- Catecholamine**  
tissue effects on phenotypic expression of crest-derived cells: MACKEY, PAYETTE & GERSHON 205
- Cell**  
adhesion  
in sea urchin: ADELSON & HUMPHREYS 391  
tissue-specific phosphatidylinositol-linked N-CAM isoform: BARTON AND OTHERS 165
- cycle  
control of length in Amphibia: AIMAR 415
- death  
pattern in *fushi tarazu*: MAGRASSI & LAWRENCE 447
- differentiation  
induction of maturation in *Dictyostelium* by acid load: INOUYE 669
- division  
determination of somite cells: AOYAMA & ASAMOTO 15
- cell lineage analysis of chick segmentation: STERN AND OTHERS Supplement 231
- lineage  
analysis of chick segmentation: STERN AND OTHERS Supplement 231
- analysis of crustacean segment: DOHLE & SCHOLTZ Supplement 147
- and leech segmentation: WEISBLAT, PRICE & WEDEEN Supplement 161
- Drosophila* eye: TOMLINSON 183
- in rat cerebral cortex: PRICE & THURLOW 473
- zebrafish segmentation: KIMMEL, SEPICH & TREVARROW Supplement 197
- migration  
patterns of fibronectin gene expression: FFRENCH-CONSTANT & HYNES 369
- proliferation  
in mouse spina bifida: COPP, BROOK & ROBERTS 285
- steroid hormone and proto-oncogene expression: REMPEL & JOHNSTON 87
- Cellular interactions**  
in *Drosophila* eye: TOMLINSON 183
- Cellular slime mould**  
maturation  
induction by acid load: INOUYE 669
- Cerebral cortex**  
cell lineage studies: PRICE & THURLOW 473
- Chick**  
embryo  
cell lineage analysis of segmentation: STERN AND OTHERS Supplement 231
- heat shock and segmentation: PRIMMETT, STERN & KEYNES 331
- HNK-1 and mesoderm induction: CANNING & STERN 643
- innervation pattern in auditory nuclei: PETTIGREW, ANSELIN & BRAMLEY 575
- limb budding and apical ectodermal ridge activity: CARRINGTON & FALCON 361
- patterns of fibronectin gene expression: FFRENCH-CONSTANT & HYNES 369
- segmentation: JACOBSON Supplement 209
- tissue effects on phenotypic expression of crest-derived cells: MACKEY, PAYETTE & GERSHON 205
- limb bud  
and apical ectodermal ridge activity: CARRINGTON & FALCON 361
- oviduct  
steroid hormone and proto-oncogene expression: REMPEL & JOHNSTON 87
- wing bud  
chondrogenesis: SOLURSH & JENSEN 41
- Chick-quail chimaera**  
determination of somite cells: AOYAMA & ASAMOTO 15
- Chimaera**  
mouse  
beige granules as cell marker for clonal analysis: NAKATSUJI 383
- development potential of parthenogenetically derived cells: CLARKE AND OTHERS 175
- quail/chick  
induction of permanent tolerance: OHKI AND OTHERS 619
- Chironomus samoensis**  
anterior determinants: ELBETIEHA & KALTHOFF 61
- Chondrogenesis**  
in chick wing bud: SOLURSH & JENSEN 41
- Chromosome**  
condensation  
in parthenogenetic mouse oocytes: CLARKE, ROSSANT & MASUI 97
- Cleavage**  
control of cell cycle length in amphibian eggs: AIMAR 415
- Cleft**  
formation in mouse salivary gland: NAKANISHI AND OTHERS 51
- Clock and Wavefront model**  
heat shock and segmentation in chick: PRIMMETT, STERN & KEYNES 331
- Clonal analysis**  
in mouse aggregation chimaeras: NAKATSUJI 383
- of crustacean segment: DOHLE & SCHOLTZ Supplement 147
- Collagen**  
and epithelial branching in mouse: NAKANISHI AND OTHERS 51
- in chick premyogenic areas: SOLURSH & JENSEN 41
- Compartment**  
modifying expression of *engrailed* in *Drosophila*: POOLE & KORNBERG Supplement 85
- Competence**  
embryonic induction: JACOBSON & SATER 341
- Condensation**  
of chromosomes in mouse oocytes: CLARKE, ROSSANT & MASUI 97
- Cone growth**  
basal lamina as substratum for outgrowth: ANDERSON & TUCKER 601

- Cross species**  
embryonal carcinoma cell differentiation: WILES 403
- Crustacea**  
clonal analysis of segmentation: DOHLE & SCHOLTZ  
*Supplement* 147
- Culture**  
prevention of mouse spina bifida: COPP, BROOK &  
ROBERTS 285
- Cytokeratin**  
expression of *Xenopus* intermediate filament proteins:  
FOUQUET AND OTHERS 533  
filament network in chick embryo: EMERSON 219
- Cytokinesis**  
control of cell cycle length in amphibian eggs: AIMAR  
415
- Cytoplasmic factor**  
in 2-cell mouse embryo: PRATT & MUGGLETON-HARRIS  
115
- Cytoplasmic pH**  
induction of maturation in *Dictyostelium*: INOUYE 669
- Dedifferentiation**  
cell fates in amphibian limb regeneration: CASIMIR AND  
OTHERS 657
- Deletion**  
of floral organs in *Arabidopsis*: KOMAKI AND OTHERS  
195
- Denervation**  
regulation of subsynaptic protein: BALDWIN AND  
OTHERS 557
- Dermomyotome**  
development in chimaeric embryos: AOYAMA &  
ASAMOTO 15
- Determinant**  
anterior  
in *Chironomus* embryo: ELBETIEHA & KALTHOFF 61
- Dictyostelium discoideum**  
extracellular matrix proteins of the slug: McROBBIE AND  
OTHERS 275  
maturation  
induction by acid load: INOUYE 669  
stalk cell formation: KWONG AND OTHERS 121
- DIF**  
-inducible mRNA and extracellular matrix proteins in  
*Dictyostelium*: McROBBIE AND OTHERS 275
- Differentiation**  
stalk cell formation in *Dictyostelium*: KWONG AND  
OTHERS 121
- Differentiation Inducing Factor**  
in *Dictyostelium*: KWONG AND OTHERS 121
- DIF (see Differentiation Inducing Factor)**
- Diptera**  
anterior determinants in *Chironomus*: ELBETIEHA &  
KALTHOFF 61
- Disruption**  
cytokeratin filaments in mouse embryo: EMERSON 219
- DNA**  
antisense  
inhibition of expression of injected HPRT minigene:  
AO AND OTHERS 465  
methylation  
dedifferentiation and metaplasia in amphibian limb  
regeneration: CASIMIR AND OTHERS 657  
of X-linked transgene: COLICK AND OTHERS 235  
sequences specific to homeotic genes: LAUGHON,  
HOWELL & SCOTT *Supplement* 75
- Dosage**  
compensation by X chromosome: MANN & LOVELL-BADGE 129
- Double abdomen**  
anterior determinants in *Chironomus*: ELBETIEHA &  
KALTHOFF 61
- Drosophila melanogaster**  
embryo  
autosomal gene activity: MERRILL, SWEETON &  
WIESCHAUS 495  
gene control of segmentation: LEHMANN  
*Supplement* 17  
gene expression and metameric regulation: ISH-HOROWICZ & GYURKOVICS *Supplement* 67  
generation of periodicity: HOWARD *Supplement* 35  
gradients and insect segmentation: FRENCH  
*Supplement* 3  
models for insect segmentation: MEINHARDT  
*Supplement* 95  
pair-rule gene regulatory interactions: INGHAM &  
GERGEN *Supplement* 51  
patterns of gene expression: TEAR, BATE & MARTINEZ-ARIAS *Supplement* 135  
present status of the parasegment: LAWRENCE  
*Supplement* 61  
X-linked zygotic gene activity: WIESCHAUS &  
SWEETON 483
- engrailed**  
homologue in mouse: DAVIDSON AND OTHERS 305  
epidermis  
adult pattern and homeotic genes: BUSTURIA &  
MORATA 713
- eye**  
cellular interactions: TOMLINSON 183
- gap gene**  
*Krüppel*: JÄCKLE, GAUL & REDEMANN *Supplement* 29
- homeobox**  
homeodomain-DNA interactions: LAUGHON, HOWELL &  
SCOTT *Supplement* 75
- homeotic gene**  
specific DNA sequences: LAUGHON, HOWELL &  
SCOTT *Supplement* 75
- modifying expression of engrailed**: POOLE & KORNBERG  
*Supplement* 85
- murine homologues to Pax genes**: DRESSLER AND  
OTHERS *Supplement* 181
- muscle development**  
tubulin as a marker: LEISS AND OTHERS 525
- pattern on cell death in *fushi tarazu***: MAGRASSI &  
LAWRENCE 447
- oogenesis**  
monitoring positional information: FASANO &  
KERRIDGE 245
- segmentation**  
metameric pattern formation: LACALLI, WILKINSON &  
HARRISON 105
- Ectopic segmentation**  
gene expression: ISH-HOROWICZ & GYURKOVICS  
*Supplement* 67
- Egg**  
amphibian  
control of cell cycle length: AIMAR 415

- Embryonal carcinoma**  
 human  
   isolation of differentially expressed cDNA clones:  
 WILES 403
- mouse  
   isolation of differentially expressed cDNA clones:  
 WILES 403
- Embryonic axis**  
 HNK-1 and mesoderm induction in chick: CANNING & STERN 643
- Embryonic induction**  
 review of features: JACOBSON & SATER 341
- engrailed**  
 homologue in mouse: DAVIDSON AND OTHERS  
   Supplement: 305  
 modifying expression: POOLE & KORNBERG  
   Supplement 85
- Enteric nervous system**  
 tissue effects on phenotypic expression of crest-derived cells: MACKEY, PAYETTE & GERSHON 205
- Environmental clue**  
 directing *Drosophila* ommatidial cell fate: TOMLINSON 183
- Epidermal cell**  
 differentiation in *Xenopus*: ITOH, YAMASHITA & KUBOTA 1
- Epidermal differentiation**  
 and mesoderm induction in *Xenopus*: SYMES, YAQOOB & SMITH 609  
 in *Xenopus*: ITOH, YAMASHITA & KUBOTA 1
- Epidermal growth factor**  
 effect on rat growth: PRATTEN AND OTHERS 137
- Epidermis**  
*Drosophila*  
 adult pattern and homeotic genes: BUSTURIA & MORATA 713
- Epithelial-mesenchymal interaction**  
 amelogenin gene expression in mouse: SNEAD AND OTHERS 77
- TGF beta-1 gene expression in mouse embryos: LEHNERT & AKHURST 263
- Epithelial branching**  
 and collagen III in mouse: NAKANISHI AND OTHERS 51
- Epithelial differentiation**  
 amelogenin gene expression in mouse: SNEAD AND OTHERS 77
- Epithelium**  
 thymic  
   induction of permanent tolerance in avian chimaeras: OHKI AND OTHERS 619
- Estrogen**  
 and proto-oncogene expression: REMPEL & JOHNSTON 87
- Evolution**  
 homeotic genes and segmental diversity: AKAM, DAWSON & TEAR Supplement 123
- Expression**  
 gene  
   amelogenin during mouse molar organogenesis:  
 SNEAD AND OTHERS 77  
   and metamerism regulation of segmentation: ISH-HOROWICZ & GYURKOVICS Supplement 67  
   *engrailed* in mouse embryos: DAVIDSON AND OTHERS 305  
   mouse *Hox 1.1*: MAHON, WESTPHAL & GRUSS  
   Supplement 187
- of *Krüppel* in *Drosophila*: JÄCKLE, GAUL & REDEMANN Supplement 29
- pattern in *Drosophila*: TEAR, BATE & MARTINEZ-ARIAS Supplement 135
- TGF beta-1 in mouse embryos: LEHNERT & AKHURST 263
- in vitro* of N-CAM isoform: BARTON AND OTHERS 165
- of carbohydrate epitope HNK-1: CANNING & STERN 643
- postnatal  
   of IGF mRNAs: BECK AND OTHERS 29
- Extracellular matrix**  
 amelogenin gene expression in mouse: SNEAD AND OTHERS 77
- proteins of *Dictyostelium*: McROBBIE AND OTHERS 275
- tenascin expression in amphibian embryo: RIOU AND OTHERS 511
- Eye**  
*Drosophila*  
   cellular interactions: TOMLINSON 183
- Fertilization**  
 CpG methylation of X-linked transgene: COLICK AND OTHERS 235
- FGF (see Fibroblast growth factor)**
- Fibroblast growth factor**  
 and mesoderm induction in *Xenopus*: SYMES, YAQOOB & SMITH 609
- Fibronectin**  
 patterns of gene expression in chick embryo: FFRENCH-CONSTANT & HYNES 369
- Filament**  
 cytokeratin disruption in mouse embryo: EMERSON 219
- Floral organ**  
 deletion in *Arabidopsis*: KOMAKI AND OTHERS 195
- Flower**  
 development in *Arabidopsis*: KOMAKI AND OTHERS 195  
 mutants in *Arabidopsis*: KOMAKI AND OTHERS 195
- Fluorescent double labelling**  
 axon collaterals in regenerating goldfish optic tract:  
   BECKER & COOK 317
- Follicle cell**  
 mouse  
   XY in XX ↔ XY chimaeras: BURGOYNE, BUEHR & McLAREN 683
- Fusion**  
 mouse blastomeres  
   and NOR activity: DYBAN AND OTHERS 453
- fushi tarazu**  
 interaction of proteins in *Drosophila*: LAUGHON, HOWELL & SCOTT 75
- pattern of cell death: MAGRASSI & LAWRENCE 447
- GABA**  
 tissue effects on its expression in crest-derived cells:  
   MACKEY, PAYETTE & GERSHON 205
- β-Galactosidase**  
 positional information in *Drosophila* oogenesis: FASANO & KERRIDGE 245
- Gap gene**  
*Krüppel*  
   function in *Drosophila*: JÄCKLE, GAUL & REDEMANN Supplement 29
- Gastrulation**  
 chick  
   HNK-1 and mesoderm induction: CANNING & STERN 643

- Gene**
- activity
    - during cellularization of *Drosophila* embryos: WIESCHAUS & SWEETON 483
    - in precellular *Drosophila*: MERRILL, SWEETON & WIESCHAUS 495
  - expression
    - amelogenin during mouse molar organogenesis: SNEAD AND OTHERS 77
    - and metameric regulation of segmentation: ISH-HOROWICZ & GYURKOVICS Supplement 67
    - engrailed* in mouse embryos: DAVIDSON AND OTHERS 305
    - mouse *Hox 1.1*: MAHON, WESTPHAL & GRUSS Supplement 187
    - of *Krüppel* in *Drosophila*: JÄCKLE, GAUL & REDEMANN Supplement 29
    - pattern in *Drosophila*: TEAR, BATE & MARTINEZ-ARIAS Supplement 135
    - TGF beta-1 in mouse embryos: LEHNERT & AKHURST 263
    - tissue-specific phosphatidylinositol-linked N-CAM isoform: BARTON AND OTHERS 165
    - gap
      - function of *Krüppel* in *Drosophila*: JÄCKLE, GAUL & REDEMANN Supplement 29
    - homeotic
      - and adult pattern in *Drosophila*: BUSTURIA & MORATA 713
      - and insect segmentation: SANDER Supplement 111
      - and segment diversity: AKAM, DAWSON & TEAR Supplement 123
    - imprinted
      - developmental potential of parthenogenetically derived cells: CLARKE AND OTHERS 175
    - interaction
      - generation of periodicity in *Drosophila*: HOWARD Supplement 35
    - paired box
      - mouse homologues to *Drosophila* genes: DRESSLER AND OTHERS Supplement 181
    - pair-rule
      - and insect segmentation: SANDER Supplement 111
      - generation of periodicity in *Drosophila*: HOWARD Supplement 35
      - pattern of cell death in *fushi tarazu*: MAGRASSI & LAWRENCE 447
      - regulatory interactions in *Drosophila*: INGHAM & GERGEN Supplement 51
    - regulation
      - homeodomain-DNA interactions: LAUGHON, HOWELL & SCOTT Supplement 75
    - segmentation
      - modifying expression of *engrailed*: POOLE & KORNBERG Supplement 85
    - Genetic analysis
      - of floral organs in *Arabidopsis*: KOMAKI AND OTHERS 195
    - Germ band
      - clonal analysis of crustacean segment: DOHLE & SCHOLTZ Supplement 147
    - Germline
      - imprinting
        - CpG methylation of X-linked transgene: COLLICK AND OTHERS 235
- Glucose**
- transport
    - role in nutrient utilization by mouse embryo: GARDNER & LEESE 423
- Glycoconjugate**
- HNK-1 and mesoderm induction in chick: CANNING & STERN 643
- Goldfish**
- refinement of optic tract order: COOK & BECKER 321
  - regeneration
    - axon collaterals in optic tract: BECKER & COOK 317
- Golgi**
- sialyltransferase isoforms: BREEN & REGAN 147
- Gonadal differentiation**
- in wallaby and exogenous steroids: SHAW AND OTHERS 689
- Gradient**
- and insect segmentation: FRENCH Supplement 3
  - in metamer pattern formation in *Drosophila*: LACALLI, WILKINSON & HARRISON 105
- Grasshopper**
- embryo
    - basal lamina as substratum for pioneer growth cones: ANDERSON & TUCKER 601
- Growth**
- cone
    - basal lamina as substratum for outgrowth: ANDERSON & TUCKER 601
  - factor
    - effect on rat embryo growth in exhausted serum: PRATTEN AND OTHERS 137
  - rat embryo
    - and serum exhaustion: PRATTEN AND OTHERS 137
    - retardation in mouse: COPP, BROOK & ROBERTS 297
- Gubernaculum**
- sexual differentiation in wallaby and exogenous steroids: SHAW AND OTHERS 689
- Head**
- segmentation: JACOBSON Supplement 209
- Heart**
- chick
    - patterns of fibronectin gene expression: FFRENCH-CONSTANT & HYNES 369
    - embryonic induction: JACOBSON & SATTER 341
- Heat shock**
- causes segmental anomalies in chick: PRIMMETT, STERN & KEYNES 331
- Heterospecific transplantation**
- anterior determinants in *Chironomus*: ELBETIEHA & KALTHOFF 61
- HNK-1 antibody**
- and mesoderm induction in chick: CANNING & STERN 643
- Homeobox**
- Drosophila*
    - homeodomain-DNA interactions: LAUGHON, HOWELL & SCOTT Supplement 75
  - engrailed*
    - expression in mouse embryos: DAVIDSON AND OTHERS 305
  - Hox 1.1*
    - expression in mouse: MAHON, WESTPHAL & GRUSS Supplement 187
- Homeo-gene**
- transcript domains in the mouse embryo: GAUNT, SHARPE & DUBOULE Supplement 169

**Homeotic gene**

- and adult pattern in *Drosophila*: BUSTURIA & MORATA 713
- and insect segmentation: SANDER **Supplement** 111
- and segment diversity: AKAM, DAWSON & TEAR **Supplement** 123
- specific DNA sequences: LAUGHON, HOWELL & SCOTT **Supplement** 75

**Homeotic mutation**

- in *Arabidopsis* flower development: KOMAKI AND OTHERS 195

**Hormone**

- steroid
  - and proto-oncogene expression: REMPEL & JOHNSTON 87

**Hox 1.1**

- expression in mouse: MAHON, WESTPHAL & GRUSS **Supplement** 187

**HPRT minigene**

- expression in mouse embryo: AO AND OTHERS 465

**Human**

- embryo
  - vitronectin production by yolk sac carcinoma cells: COOPER & PERA 565
  - embryonal carcinoma
    - isolation of differentially expressed cDNA clones: WILES 403

**Hyalin**

- adhesion perturbed by specific monoclonal antibody: ADELSON & HUMPHREYS 391

**Hybridization**

- histochemistry
  - of IGF mRNAs: BECK AND OTHERS 29
- in situ*
  - developmental potential of parthenogenetically derived cells: CLARKE AND OTHERS 175
  - engrailed* expression in mouse embryos: DAVIDSON AND OTHERS 305
  - homeo-gene transcript domains in the mouse embryo: GAUNT, SHARPE & DUBOULE **Supplement** 169
  - localization of laminin mRNA and protein: SENIOR AND OTHERS 430
  - mouse amelogenin gene expression: SNEAD AND OTHERS 77
  - of IGF mRNAs: BECK AND OTHERS 29
  - patterns of fibronectin gene expression in chick: FFRENCH-CONSTANT & HYNES 369
  - TGF beta-1 gene expression in mouse embryos: LEHNERT & AKHURST 263

**Hypoblast**

- HNK-1 and mesoderm induction in chick: CANNING & STERN 643

**IGF-I**

- histochemical localization: BECK AND OTHERS 29

**IGF-II**

- histochemical localization: BECK AND OTHERS 29

**Immunoglobulin**

- gene superfamily: BARTON AND OTHERS 165

**Immunohistochemistry**

- collagen and epithelial branching: NAKANISHI AND OTHERS 51

**Imprinting**

- developmental potential of parthenogenetically derived cells: CLARKE AND OTHERS 175

**Inactivation**

- X-chromosome in mouse: COLICK AND OTHERS 235

**Induction**

- mesoderm
  - and HNK-1 in chick: CANNING & STERN 643
  - in *Xenopus*: SYMES, YAQOOB & SMITH 609
  - neural
    - expression of tenascin in amphibian embryo: RIOU AND OTHERS 511
  - review of features: JACOBSON & SATER 341
  - tolerance
    - in wing-thymus avian chimaeras: OHKI AND OTHERS 619

**Innervation**

- kidney
  - in mouse: SARIOLA, HOLM & HENKE-FAHLE 589
  - pattern
    - in auditory nuclei of chick: PETTIGREW, ANSELIN & BRAMLEY 575

**Insect**

- embryo
  - gradients and segmentation: FRENCH **Supplement** 3
  - scale of pattern formation: COOKE **Supplement** 231
  - segmentation
    - from teratology to phenogenetics: SANDER **Supplement** 111

**In situ**

- hybridization
  - developmental potential of parthenogenetically derived cells: CLARKE AND OTHERS 175
  - engrailed* expression in mouse embryos: DAVIDSON AND OTHERS 305
  - homeo-gene transcript domains in the mouse embryo: GAUNT, SHARPE & DUBOULE **Supplement** 169
  - localization of laminin mRNA and protein: SENIOR AND OTHERS 430
  - mouse amelogenin gene expression: SNEAD AND OTHERS 77
  - of IGF mRNAs: BECK AND OTHERS 29
  - patterns of fibronectin gene expression in chick: FFRENCH-CONSTANT & HYNES 369
  - TGF beta-1 gene expression in mouse embryos: LEHNERT & AKHURST 263

**Insulin**

- effect of growth of rat embryos: PRATTEN AND OTHERS 137

**Insulin-like growth factor**

- histochemical localization: BECK AND OTHERS 29

**Interaction**

- morphogenetic
  - early innervation of kidney: SARIOLA, HOLM & HENKE-FAHLE 589

**Intercalary regeneration**

- axolotl
  - and retinoic acid: CRAWFORD & STOCUM 703

**Intermediate filament protein**

- expression in *Xenopus*: FOUQUET AND OTHERS 533

**Intervertebral disk**

- murine Pax genes: DRESSLER AND OTHERS **Supplement** 181

**Inviability**

- parthenogenetic and X chromosome: MANN & LOVELL-BADGE 129

**In vitro**

- cytoplasmic factors in 2-cell mouse embryos: PRATT & MUGGLETON-HARRIS 115

**In vivo**

- steroid hormone and proto-oncogene expression: REMPEL & JOHNSTON 87

- Irradiation**  
 u.v. of *Chironomus* embryos: ELBETIEHA & KALTHOFF 61
- Isoform**  
 sialyltransferase in Golgi: BREEN & REGAN 147
- Kidney**  
 mouse  
 beige granules as cell marker for clonal analysis:  
 NAKATSUJI 383  
 early innervation: SARIOLA, HOLM & HENKE-FAHLE 589
- Kr (see Krüppel)**
- Krüppel**  
 function in *Drosophila*: JÄCKLE, GAUL & REDEMANN Supplement 29
- Laminin**  
 in chick premyogenic areas: SOLURSH & JENSEN 41  
 mRNA localization in mouse embryo: SENIOR AND OTHERS 430
- Leech**  
 segmentation: WEISBLAT, PRICE & WEDEEN Supplement 161
- Lens**  
 embryonic induction: JACOBSON & SATER 341
- Limb**  
 bud  
 apical ectodermal ridge activity: CARRINGTON & FALLON 361  
 basement membrane components in chick: SOLURSH & JENSEN 41  
 mouse  
*engrailed* expression: DAVIDSON AND OTHERS 305  
 regeneration  
 in axolotl and retinoic acid: CRAWFORD & STOCUM 703
- limbless**  
 mutant  
 limb budding and apical ectodermal ridge activity:  
 CARRINGTON & FALLON 361
- Liver**  
 mouse  
 beige granules as cell marker for clonal analysis:  
 NAKATSUJI 383  
 rat  
 histochemical localization of IGF mRNAs: BECK AND OTHERS 29
- Localization**  
 of anterior determinants in *Chironomus*: ELBETIEHA & KALTHOFF 61
- Macropus eugenii**  
 MIS production: HUTSON AND OTHERS 549  
 sexual differentiation in wallaby and exogenous steroids: SHAW AND OTHERS 689
- Mammary gland**  
 sexual differentiation in wallaby and exogenous steroids: SHAW AND OTHERS 689
- Marsupial**  
 MIS production in tammar wallaby: HUTSON AND OTHERS 549  
 sexual differentiation in wallaby and exogenous steroids: SHAW AND OTHERS 689
- Maternal effect**  
*Drosophila* gap gene *Krüppel*: JÄCKLE, GAUL & REDEMANN Supplement 29
- Maternal gene**  
 control of *Drosophila* segmentation: LEHMANN Supplement 17  
*Drosophila* gap gene *Krüppel*: JÄCKLE, GAUL & REDEMANN Supplement 29
- Maternally derived X chromosome**  
 and parthenogenetic inviability: MANN & LOVELL-BADGE 129
- Maturation**  
 mouse oocytes: CLARKE, ROSSANT & MASUI 97
- Meiotic maturation**  
 mouse oocytes: CLARKE, ROSSANT & MASUI 97
- Mesoderm**  
 induction  
 and HNK-1 in chick: CANNING & STERN 643  
 in *Xenopus*: SYMES, YAQOOB & SMITH 609  
 limb  
 budding and apical ectodermal ridge activity:  
 CARRINGTON & FALLON 361  
 paraxial  
 segmentation of vertebrate embryos: JACOBSON Supplement 209  
 segmentation of frogs: DAVIDSON Supplement 221  
 somite  
 cell lineage analysis of chick segmentation: STERN AND OTHERS Supplement 231  
 tubulin as a marker for *Drosophila* muscle development: LEISS AND OTHERS 525
- Mesoderm-inducing factor**  
 in *Xenopus*: SYMES, YAQOOB & SMITH 609
- Metabolism**  
 role of glucose and pyruvate transport in mouse embryo: GARDNER & LESE 423
- Metameric regulation**  
 and ectopic gene expression: ISH-HOROWICZ & GYURKOVICS Supplement 67
- Metameric unit**  
 patterns of gene expression in *Drosophila*: TEAR, BATE & MARTINEZ ARIAS Supplement 135
- Metamerism**  
 zebrafish segmentation: KIMMEL, SEPICH & TREVARROW Supplement 197
- Metamorphosis**  
 and epidermal antigens in *Xenopus*: ITOH, YAMASHITA & KUBOTA 1
- Metaphase chromosome analysis**  
 NOR activity in fused mouse blastomeres: DYBAN AND OTHERS 453
- Metaplasia**  
 cell fates in amphibian limb regeneration: CASIMIR AND OTHERS 657
- Methylation**  
 CpG, of X-linked transgene: COLLICK AND OTHERS 235 DNA  
 dedifferentiation and metaplasia in amphibian limb regeneration: CASIMIR AND OTHERS 657
- Microinjection**  
 bioassay of anterior determinants in *Chironomus*: ELBETIEHA & KALTHOFF 61
- MIF (see Mesoderm-inducing factor)**
- MIS (see Müllerian inhibitory substance)**
- Mitosis**  
 cytoplasmic factors in 2-cell mouse embryos: PRATT & MUGGLETON-HARRIS 115

**Model**

- Clock and Wavefront  
heat shock and segmentation in chick: PRIMMETT,  
STERN & KEYNES 331
- for insect segmentation: MEINHARDT **Supplement** 95  
for metameric pattern formation in *Drosophila*:  
LACALLI, WILKINSON & HARRISON 105
- Monoclonal antibody**  
epidermal antigens in *Xenopus*: ITOH, YAMASHITA &  
KUBOTA 1
- study of sea urchin cell adhesion: ADELSON &  
HUMPHREYS 391
- Monolayer**  
stalk cell formation in *Dictyostelium*: KWONG AND  
OTHERS 121
- Morphogen**  
stalk cell formation in *Dictyostelium*: KWONG AND  
OTHERS 121
- Morphogenetic centre**  
in insect segmentation: SANDER **Supplement** 111
- Morphogenetic field**  
embryonic induction: JACOBSON & SATER 341
- Mouse**  
chimaera  
beige granules as cell marker for clonal analysis:  
NAKATSUI 383
- developmental potential of parthenogenetically  
derived cells: CLARKE AND OTHERS 175
- XY follicle cell in XX $\leftrightarrow$ XY chimaeras: BURGOYNE,  
BUEHR & McLAREN 683
- embryo  
actin gene expression: SASOON, GARNER &  
BUCKINGHAM 155
- amelogenin gene expression: SNEAD AND OTHERS 77
- cell proliferation in spina bifida: COPP, BROOK &  
ROBERTS 285
- collagen III in submandibular epithelium: NAKANISHI  
AND OTHERS 51
- CpG methylation of X-linked transgene: COLICK AND  
OTHERS 235
- cytokeratins: EMERSON 219
- cytoplasmic factor *in vitro*: PRATT & MUGGLETON-  
HARRIS 115
- engrailed expression: DAVIDSON AND OTHERS 305
- expression of injected HPRT minigene DNA: AO AND  
OTHERS 465
- homeogene transcript domains: GAUNT, SHARPE &  
DUBOULE **Supplement** 169
- localization of laminin mRNA and protein: SENIOR  
AND OTHERS 430
- NOR activity in fused blastomeres: DYBAN AND  
OTHERS 453
- prevention of spina bifida: COPP, CROLLA & BROOK  
297
- role of glucose and pyruvate transport: GARDNER &  
LEESE 423
- segmentation: JACOBSON **Supplement** 209
- TGF beta-1 gene expression: LEHNERT & AKHURST  
263
- X chromosome and parthenogenetic inviability: MANN  
& LOVELL-BADGE 129
- embryonal carcinoma  
isolation of differentially expressed cDNA clones:  
WILES 403
- kidney  
early innervation: SARIOLA, HOLM & HENKE-FAHLE  
589
- oocyte  
parthenogenetic development: CLARKE, ROSSANT &  
MASUI 97
- MT-1**  
expression of HPRT minigene DNA: AO AND OTHERS  
465
- Müllerian duct**  
sexual differentiation in wallaby and exogenous  
steroids: SHAW AND OTHERS 689
- Müllerian inhibitory substance**  
production in a marsupial: HUTSON AND OTHERS 549
- sexual differentiation in wallaby and exogenous  
steroids: SHAW AND OTHERS 689
- Muscle**  
development in *Drosophila*: LEISS AND OTHERS 525
- rat  
histochemical localization of IGF mRNAs: BECK AND  
OTHERS 29
- skeletal  
tissue-specific phosphatidylinositol-linked N-CAM  
isoform: BARTON AND OTHERS 165
- Mutant**  
*curly tail*  
cell proliferation in mouse spina bifida: COPP, BROOK  
& ROBERTS 285
- in mouse: COPP, BROOK & ROBERTS 297
- flower  
in *Arabidopsis*: KOMAKI AND OTHERS 195
- limbless*  
limb budding and apical ectodermal ridge activity:  
CARRINGTON & FALLON 361
- Mutation**  
beige  
as cell marker for clonal analysis in chimaera:  
NAKATSUJI 383
- homeotic  
in *Arabidopsis* flower development: KOMAKI AND  
OTHERS 195
- Myogenesis**  
in chick wing bud: SOLURSH & JENSEN 41
- Myotome**  
actin gene expression in mouse embryo: SASOON,  
GARNER & BUCKINGHAM 155
- Myriapods**  
segmentation: SANDER **Supplement** 111
- N-CAM**  
sialylation control by sialyltransferase isoforms: BREEN  
& REGAN 147
- tissue-specific phosphatidylinositol-linked isoform:  
BARTON AND OTHERS 165
- Neural crest**  
chick  
patterns of fibronectin gene expression: FFRENCH-  
CONSTANT & HYNES 369
- tissue effects on phenotypic expression: MACKEY,  
PAYETTE & GERSHON 205
- Neural induction**  
expression of tenascin in amphibian embryo: RIOU AND  
OTHERS 511
- Neural tube**  
cell lineage analysis of chick segmentation: STERN AND  
OTHERS **Supplement** 231
- defects  
cell proliferation in spina bifida: COPP, BROOK &  
ROBERTS 285

- prevention of mouse spina bifida: COPP, BROOK & ROBERTS 297  
*engrailed* expression in mouse embryos: DAVIDSON AND OTHERS 305
- Neurogenesis**  
 cell lineage in rat cerebral cortex: PRICE & THURLOW 473  
**Neuromere**  
 zebrafish segmentation: KIMMEL, SEPICH & TREVARROW Supplement 197  
**Neuromuscular synapse**  
 regulation of subsynaptic protein: BALDWIN AND OTHERS 557  
**Neuronal differentiation**  
 of metanephric kidney: SARIOLA, HOLM & HENKE-FAHLE 589
- Neurone**  
 pioneer  
 basal lamina as substratum for outgrowth: ANDERSON & TUCKER 601  
 substratum  
 for outgrowth: ANDERSON & TUCKER 601
- NOR**  
 activity in fused mouse blastomeres: DYBAN AND OTHERS 453
- Notophthalmus viridescens***  
 regeneration  
 cell fates: CASIMIR AND OTHERS 657
- Nucleocytoplasmic relationship**  
 control of cell cycle length: AIMAR 415
- Nucleus**  
 control of cell cycle length in amphibian eggs: AIMAR 415
- Number**  
 of segments in vertebrates: COOKE Supplement 231
- Oestradiol**  
 sexual differentiation in wallaby and exogenous steroids: SHAW AND OTHERS 689
- Ommatidium**  
*Drosophila*  
 cellular interactions: TOMLINSON 183
- Oocyte**  
 mouse  
 parthenogenetic development: CLARKE, ROSSANT & MASUI 97
- Oogenesis**  
*Drosophila*  
 monitoring positional information: FASANO & KERRIDGE 245  
*Xenopus*  
 c-myc expression: HOURDRY AND OTHERS 631
- Optic tract**  
 goldfish  
 axon collaterals in regeneration: BECKER & COOK 317  
 refinement of order is not activity-dependent: COOK & BECKER 321
- Organs**  
 homeo-gene transcript domains in the mouse embryo: GAUNT, SHARPE & DUBOULE Supplement 169
- Ovary**  
 mouse  
 XY follicle cell in XX $\leftrightarrow$ XY chimaeras: BURGOYNE, BUEHR & McLAREN 683
- Oviduct**  
 chick  
 steroid hormone and proto-oncogene expression: REMPEL & JOHNSTON 87
- Paired box gene**  
 mouse homologues to *Drosophila* genes: DRESSLER AND OTHERS Supplement 181
- Pair-rule gene**  
 generation of periodicity in *Drosophila*: HOWARD Supplement 35  
 in insect segmentation: SANDER Supplement 111  
 pattern of cell death in *fushi tarazu*: MAGRASSI & LAWRENCE 447  
 regulatory interactions in *Drosophila*: INGHAM & GERGEN Supplement 51
- Parasegment**  
 present status in *Drosophila*: LAWRENCE Supplement 61
- Parasegmental metamery**  
 in insect segmentation: SANDER Supplement 111
- Paraxial mesoderm**  
 segmentation of vertebrate embryos: JACOBSON Supplement 209
- Parenchyma**  
 liver – beige granules as cell marker for clonal analysis: NAKATSUI 383
- Parietal endoderm**  
 human  
 isolation of differentially expressed cDNA clones: WILES 403  
 vitronectin production by yolk sac carcinoma cells: COOPER & PERA 565
- Parthenogenesis**  
 developmental potential of cells in mouse chimaeras: CLARKE AND OTHERS 175  
 meiotic maturation of mouse oocytes: CLARKE, ROSSANT & MASUI 97
- Parthenogenone**  
 development of XO mouse embryo: MANN & LOVELL-BADGE 129
- Pattern**  
 adult  
 and homeotic genes in *Drosophila*: BUSTURIA & MORATA 713  
 deletion  
 in *fushi tarazu* mutants: MAGRASSI & LAWRENCE 447  
 discontinuity  
 in axolotl regeneration: CRAWFORD & STOCUM 703  
 formation  
 calcium localization in *Acetabularia* whorl formation: HARRISON, GRAHAM & LAKOWSKI 255  
 expression of mouse *Hox 1.1*: MAHON, WESTPHAL & GRUSS Supplement 187  
 extracellular matrix proteins in *Dictyostelium*: McROBBIE AND OTHERS 275  
 generation in *Drosophila*: HOWARD Supplement 35  
 gradients and insect segmentation: FRENCH Supplement 3  
 in *Drosophila* eye: TOMLINSON 183  
 maternal and zygotic gene control in *Drosophila*: LEHMANN Supplement 17  
 metamer pattern in *Drosophila*: LACALLI, WILKINSON & HARRISON 105  
 models for insect segmentation: MEINHARDT Supplement 95

- present status of the parasegment in *Drosophila*:  
 LAWRENCE *Supplement* 61  
 scale of in insects and vertebrates: COOKE  
*Supplement* 231
- innervation**  
 in auditory nuclei of chick: PETTIGREW, ANSELIN &  
 BRAMLEY 575  
 of gene expression in *Drosophila*: TEAR, BATE &  
 MARTINEZ ARIAS *Supplement* 135
- organizer**  
*Drosophila* gap gene *Krüppel*: JÄCKLE, GAUL &  
 REDEMANN *Supplement* 29
- periodic**  
 pair-rule gene regulatory interactions: INGHAM &  
 GERGEN *Supplement* 51
- Pax gene** (see Paired box gene)
- Periodic pattern**  
 generation in *Drosophila*: HOWARD *Supplement* 35  
 pair-rule gene regulatory interactions: INGHAM &  
 GERGEN *Supplement* 51
- Peripheral membrane protein**  
 regulation of transcript: BALDWIN AND OTHERS 557
- Phosphatidylinositol**  
 -linked N-CAM isoform: BARTON AND OTHERS 165
- Phylogenetic interpretation**  
 of patterns of gene expression: TEAR, BATE & MARTINEZ  
 ARIAS *Supplement* 135
- Pioneer neurone**  
 basal lamina as substratum for outgrowth: ANDERSON &  
 TUCKER 601
- Placenta**  
 mouse  
 localization of laminin mRNA and protein: SENIOR  
 AND OTHERS 430
- P[lac, ry<sup>+</sup>]A**  
 positional information in *Drosophila* oogenesis: FASANO  
 & KERRIDGE 245
- Pleurodeles walli**  
 egg  
 control of cell cycle length: AIMAR 415  
 embryo  
 tenascin expression: RIOU AND OTHERS 511
- Polycomb**  
 ectopic expression of homeotic genes in *Drosophila*:  
 BUSTURIA & MORATA 713
- Positional information**  
 axolotl  
 intercalary regeneration: CRAWFORD & STOCUM 703  
 models for insect segmentation: MEINHARDT  
*Supplement* 95
- Postnatal development**  
 rat  
 N-CAM sialylation control by sialyltransferase  
 isoforms: BREEN & REGAN 147
- Postnatal expression**  
 of IGF mRNAs: BECK AND OTHERS 29
- Postsynaptic membrane**  
 regulation of subsynaptic protein: BALDWIN AND  
 OTHERS 557
- Pouch young**  
 MIS production and testicular descent: HUTSON AND  
 OTHERS 549  
 sexual differentiation in wallaby and exogenous  
 steroids: SHAW AND OTHERS 689
- Precellular stage**  
*Drosophila* - gene activity: MERRILL, SWEETON &  
 WIESCHAUS 495
- Preferential inactivation**  
 X chromosome and parthenogenetic inviability: MANN &  
 LOVELL-BADGE 129
- Preimplantation**  
 embryo  
 expression of injected HPRT minigene DNA: AO AND  
 OTHERS 465  
 role of glucose and pyruvate transport: GARDNER &  
 LESE 423
- Prespore cell**  
 stalk cell formation in *Dictyostelium*: KWONG AND  
 OTHERS 121
- Prestalk cell**  
 stalk cell formation in *Dictyostelium*: KWONG AND  
 OTHERS 121
- Prevertebrae**  
 homeo-gene transcript domains in the mouse embryo:  
 GAUNT, SHARPE & DUBOULE *Supplement* 169
- Primary blast cell**  
 leech segmentation: WEISBLAT, PRICE & WEDEEN  
*Supplement* 161
- Primitive streak**  
 chick  
 HNK-1 and mesoderm induction: CANNING & STERN  
 643
- Progress zone model**  
 and insect segmentation: SANDER *Supplement* 111
- Proliferation**  
 cell  
 in mouse spina bifida: COPP, BROOK & ROBERTS 285
- Promoter function**  
 expression of injected HPRT minigene DNA in mouse  
 embryo: AO AND OTHERS 465
- Protein**  
 encoded by *Drosophila* homeotic genes: LAUGHON,  
 HOWELL & SCOTT *Supplement* 75
- Proto-oncogene**  
 c-myc expression in *Xenopus*: HOURDRY AND OTHERS  
 631  
 expression and steroid hormones: REMPEL &  
 JOHNSTON 87
- Proximal tubule**  
 mouse kidney - beige granules as cell marker for clonal  
 analysis: NAKATSUJI 383
- Pyruvate**  
 transport  
 role in nutrient utilization by mouse embryo:  
 GARDNER & LESE 423
- Quail**  
 embryo  
 segmentation: JACOBSON *Supplement* 209
- Quail/chick chimaera**  
 induction of permanent tolerance: OHKI AND OTHERS  
 619
- Rat**  
 brain  
 N-CAM sialylation control by sialyltransferase  
 isoforms: BREEN & REGAN 147  
 cerebral cortex  
 cell lineage studies: PRICE & THURLOW 473  
 embryo  
 serum exhaustion: PRATTEN AND OTHERS 137  
 postnatal  
 histochemical localization of IGF mRNAs: BECK AND  
 OTHERS 29

- Reaction-diffusion**  
 calcium localization in *Acetabularia* whorl formation:  
 HARRISON, GRAHAM & LAKOWSKI 255  
 metameric pattern formation in *Drosophila*: LACALLI,  
 WILKINSON & HARRISON 105
- Recycled serum**  
 effect on rat embryo growth: PRATTEN AND OTHERS 137
- Regeneration**  
 amphibian limb  
 cell fates: CASIMIR AND OTHERS 657  
 intercalary  
 in axolotl and retinoic acid: CRAWFORD & STOCUM  
 703
- Regulated gene**  
 isolation of differentially expressed cDNA clones:  
 WILES 403
- Rescue**  
 of irradiated *Chironomus* embryos: ELBETIEHA &  
 KALTHOFF 61
- Retardation**  
 of growth in mouse: COPP, BROOK & ROBERTS 285
- Retina**  
*Drosophila*  
 pattern formation: TOMLINSON 183
- Retinoic acid**  
 and axolotl intercalary regeneration: CRAWFORD &  
 STOCUM 703  
 isolation of differentially expressed cDNA clones:  
 WILES 403
- Retinotectal map**  
 in goldfish: COOK & BECKER 321
- Retinotropic order**  
 in goldfish optic tract: COOK & BECKER 321
- Retroviral vector**  
 cell lineage in rat cerebral cortex: PRICE & THURLOW  
 473
- Ribosome**  
 cistron activity  
 in fused mouse blastomeres: DYBAN AND OTHERS 453
- RNA**  
 bioassay of anterior determinants in *Chironomus*:  
 ELBETIEHA & KALTHOFF 61  
 messenger  
 c-myc expression in *Xenopus*: HOURDRY AND OTHERS  
 631  
 expression of *Xenopus* intermediate filament  
 proteins: FOUQUET AND OTHERS 533  
 IGFs in rat: BECK AND OTHERS 29  
 laminin - localization in mouse embryo: SENIOR AND  
 OTHERS 430  
 TGF beta type-I: LEHNERT & AKHURST 263
- Rostrocaudal axis**  
 development in chimaeric embryos: AOYAMA &  
 ASAMOTO 15
- Salivary gland**  
 epithelial branching and collagen III in mouse:  
 NAKANISHI AND OTHERS 51
- Sarcomeric actin**  
 gene expression in mouse embryo: SASSOON, GARNER &  
 BUCKINGHAM 155
- Schistocerca americana**  
 embryo  
 basal lamina as substratum for pioneer growth cones:  
 ANDERSON & TUCKER 601
- Sclerotome**  
 development in chimaeric embryos: AOYAMA &  
 ASAMOTO 15
- Scrotum**  
 sexual differentiation in wallaby and exogenous  
 steroids: SHAW AND OTHERS 689
- Sea urchin**  
 embryo  
 cell-hyalin adhesion: ADELSON & HUMPHREYS 391
- Segment**  
 size in vertebrates: COOKE Supplement 231
- Segmental pattern**  
 maternal and zygotic gene control in *Drosophila*:  
 LEHMANN Supplement 17
- Segmentation**  
 and heat shock in chick embryo: PRIMMETT, STERN &  
 KEYNES 331  
 and homeotic genes: AKAM, DAWSON & TEAR  
 Supplement 123  
 cell lineage analysis in chick embryo: STERN AND  
 OTHERS Supplement 231  
 clonal analysis of crustacean segment: DOHLE &  
 SCHOLTZ Supplement 147  
*Drosophila*: LACALLI, WILKINSON & HARRISON 105  
 ectopic gene expression and metameric regulation: ISH-  
 HOROWICZ & GYURKOVICS Supplement 67  
 engrailed expression in mouse embryos: DAVIDSON AND  
 OTHERS 305  
 expression of mouse *Hox 1.1*: MAHON, WESTPHAL &  
 GRUSS Supplement 187  
 gene  
 modifying expression of *engrailed*: POOLE &  
 KORNBERG Supplement 85  
 pattern of cell death in *fushi tarazu*: MAGRASSI &  
 LAWRENCE 447  
 generation of periodicity in *Drosophila*: HOWARD  
 Supplement 35  
 gradients and insect segmentation: FRENCH  
 Supplement 3  
 homeo-gene transcript domains in the mouse embryo:  
 GAUNT, SHARPE & DUBOULE Supplement 169  
 insect  
 from teratology to phenogenetics: SANDER  
 Supplement 111  
 interaction between pair-rule genes: INGHAM &  
 GERGEN Supplement 51  
 interaction of proteins encoded by homeotic genes:  
 LAUGHON, HOWELL & SCOTT Supplement 75  
 leech: WEISBLAT, PRICE & WEDEEN Supplement 161  
 maternally supplied positional information:  
 MEINHARDT Supplement 95  
 murine Pax genes: DRESSLER AND OTHERS  
 Supplement 181  
 of frogs: DAVIDSON Supplement 221  
 patterns of gene expression: TEAR, BATE & MARTINEZ  
 ARIAS Supplement 135  
 present status of parasegment: LAWRENCE  
 Supplement 61  
 regulation of gap gene *Krüppel*: JÄCKLE, GAUL &  
 REDEMANN Supplement 29  
 somitomeres: JACOBSON Supplement 209  
 zebrafish: KIMMEL, SEPICH & TREVARROW  
 Supplement 197
- Serotonin**  
 tissue effects on its expression in crest-derived cells:  
 MACKEY, PAYETTE & GERSHON 205

- Sexual differentiation**  
in wallaby and exogenous steroids: SHAW AND OTHERS 689
- Sialylation**  
N-CAM, control by sialyltransferase isoforms: BREEN & REGAN 147
- Skeletal muscle**  
tissue-specific phosphatidylinositol-linked N-CAM isoform: BARTON AND OTHERS 165
- Slime mould**  
maturation  
induction by acid load: INOUYE 669
- Somatomedin**  
in postnatal rats: BECK AND OTHERS 29
- Somite**  
actin gene expression in mouse embryo: SASSOON, GARNER & BUCKINGHAM 155  
development in chimaeric embryos: AOYAMA & ASAMOTO 15  
mesoderm  
cell lineage analysis of chick segmentation: STERN AND OTHERS Supplement 231  
zebrafish segmentation: KIMMEL, SEPICH & TREVARROW Supplement 197
- Somitomere**  
segmentation of vertebrate embryos: JACOBSON Supplement 209
- SPARC**  
isolation of differentially expressed cDNA clones: WILES 403
- Spermine**  
control of cell cycle length in amphibian eggs: AIMAR 415
- Spina bifida**  
cell proliferation: COPP, BROOK & ROBERTS 285  
prevention in mouse: COPP, BROOK & ROBERTS 297
- Spinal cord**  
prevention of spina bifida in mouse: COPP, BROOK & ROBERTS 297
- Spinal neural tube**  
cell proliferation in spina bifida: COPP, BROOK & ROBERTS 285
- Steroid hormone**  
and proto-oncogene expression: REMPEL & JOHNSTON 87
- Stripe**  
formation in *Drosophila*: LACALLI, WILKINSON & HARRISON 105
- Substratum**  
for pioneer growth cones: ANDERSON & TUCKER 601
- Synapse**  
development of innervation in chick auditory nuclei: PETTIGREW, ANSELIN & BRAMLEY 575
- Tagmata**  
homeotic genes and segmental diversity: AKAM, DAWSON & TEAR Supplement 123
- Tammar wallaby (see *Macropus eugenii*)**
- Teloblast**  
leech segmentation: WEISBLAT, PRICE & WEDEEN Supplement 161
- Tenascin**  
expression in amphibian embryo: RIOU AND OTHERS 511
- Testicular descent**  
and Müllerian inhibitory substance: HUTSON AND OTHERS 549  
in wallaby and exogenous steroids: SHAW AND OTHERS 689
- Testicular migration**  
in wallaby and exogenous steroids: SHAW AND OTHERS 689
- Testosterone**  
sexual differentiation in wallaby and exogenous steroids: SHAW AND OTHERS 689
- TGF beta-1**  
gene expression in mouse embryos: LEHNERT & AKHURST 263
- TGF (see Transforming growth factor)**
- Thymic epithelium**  
induction of permanent tolerance in avian chimaeras: OHKI AND OTHERS 619
- Thymic involution**  
induction of permanent tolerance in avian chimaeras: OHKI AND OTHERS 619
- Tip**  
growth - calcium localization in *Acetabularia* whorl formation: HARRISON, GRAHAM & LAKOWSKI 255
- Tissue**  
recombination  
limb budding: CARRINGTON & FALCON 361
- Tolerance**  
induction in wing-thymus avian chimaeras: OHKI AND OTHERS 619
- Tooth**  
organogenesis in mouse: SNEAD AND OTHERS 77
- Torpedo**  
regulation of subsynaptic protein: BALDWIN AND OTHERS 557
- Traction**  
extracellular matrix proteins in *Dictyostelium*: McROBBIE AND OTHERS 275
- Transcript**  
domains  
in mouse embryos: GAUNT, SHARPE & DUBOULE Supplement 169
- Transcription**  
gene activity during cellularization of *Drosophila* embryos: WIESCHAUS & SWEETON 483
- Transferrin**  
effect on rat embryo growth: PRATTEN AND OTHERS 137
- Transformation**  
positional information in *Drosophila* oogenesis: FASANO & KERRIDGE 245
- Transforming growth factor- $\beta$ 1**  
and mesoderm induction in *Xenopus*: SYMES, YAQOOB & SMITH 609
- Transgene**  
CpG methylation of X-linked transgene: COLICK AND OTHERS 235
- Transplantation**  
heterospecific  
anterior determinants in *Chironomus*: ELBETIEHA & KALTHOFF 61
- Trophectoderm**  
cytokeratin disruption in mouse embryo: EMERSON 219
- $\beta$ 3 tubulin**  
a marker for *Drosophila* muscle development: LEISS AND OTHERS 525

- Tyrosine hydroxylase**  
tissue effects on its expression in crest-derived cells:  
MACKEY, PAYETTE & GERSHON 205
- U.v.**  
irradiation of *Chironomus* embryos: ELBETIEHA &  
KALTHOFF 61
- Vertebrae**  
*engrailed* expression in mouse embryos: DAVIDSON AND  
OTHERS 305
- Vertebral column**  
heat shock and chick segmentation: PRIMMETT, STERN &  
KEYNES 331
- Vertebrate**  
scale of pattern formation: COOKE Supplement 231  
segmentation  
murine Pax genes: DRESSLER AND OTHERS  
Supplement 181  
segmentation of frogs: DAVIDSON Supplement 221
- Visceral endoderm**  
human  
isolation of differentially expressed cDNA clones:  
WILES 403
- Vitronectin**  
production by human yolk sac carcinoma cells: COOPER  
& PERA 565
- Wallaby**  
MIS production: HUTSON AND OTHERS 549  
sexual differentiation in wallaby and exogenous  
steroids: SHAW AND OTHERS 689
- Wing bud**  
chick  
chondrogenesis: SOLURSH & JENSEN 41
- Wolffian duct**  
sexual differentiation in wallaby and exogenous  
steroids: SHAW AND OTHERS 689
- X chromosome**  
and parthenogenetic inviability: MANN & LOVELL-  
BADGE 129  
gene activity during cellularization of *Drosophila*  
embryos: WIESCHAUS & SWEETON 483  
inactivation in mouse: COLICK AND OTHERS 235
- Xenopus laevis**  
embryo  
c-myc expression: HOURDRY AND OTHERS 631  
epidermal antigens: ITOH, YAMASHITA & KUBOTA 1  
expression of intermediate filament proteins: FOQUET  
AND OTHERS 533  
mesoderm induction: SYMES, YAQOOB & SMITH 609  
regulation of subsynaptic protein: BALDWIN AND  
OTHERS 557
- XX $\leftrightarrow$ XY females**  
XY follicle cells: BURGOYNE, BUEHR & McLAREN 683
- Yolk sac**  
carcinoma cell  
vitronectin production: COOPER & PERA 565
- Zebrafish**  
segmentation: KIMMEL, SEPICH & TREVARROW  
Supplement 197
- Zygotic gene**  
control of *Drosophila* segmentation: LEHMANN  
Supplement 17